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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,957	07/30/2003	Joerg Georg Appinger	DE920020016US1	1788
75	90 01/27/2006		EXAMINER	
Floyd A. Gonzalez			CHUNG, PHUNG M	
IBM Corporatio				
2455 South Roa			ART UNIT	PAPER NUMBER
Poughkeepsie, NY 12601 2138				
			DATE MAILED: 01/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/630,957	APPINGER ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Phung My Chung	2138	
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover she	et with the correspondence address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. or period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statut- treply received by the Office later than three months after the mailine ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMM 136(a). In no event, however, m will apply and will expire SIX (6) e, cause the application to become	JNICATION. ay a reply be timely filed MONTHS from the mailing date of this communication. ne ABANDONED (35 U.S.C. § 133).	
Status				
	Responsive to communication(s) filed on This action is FINAL . 2b) This Since this application is in condition for allowed closed in accordance with the practice under a since the condition of the condi	s action is non-final. ance except for formal	• •	
	closed in accordance with the practice under	Ex parte Quayle, 1955	C.D. 11, 493 O.G. 213.	
Dispositi	ion of Claims			
5)□ 6)⊠ 7)⊠ 8)□	Claim(s) 1-31 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1.18 and 25 is/are rejected. Claim(s) 2-17,19-24 and 26-31 is/are objected. Claim(s) are subject to restriction and/or con Papers	awn from consideration		
· · · ·	·			
10)	The specification is objected to by the Examinor The drawing(s) filed on is/are: a) according a confidence of the Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examinor The specific and	cepted or b) objected or b) objected or b) objected or ablanced in ablanced if the drawn of the drawn or b) objected or b) obj	eyance. See 37 CFR 1.85(a). ving(s) is objected to. See 37 CFR 1.121(d).	
Priority ı	ınder 35 U.S.C. § 119			
12)⊠ a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea see the attached detailed Office action for a list	ts have been received ts have been received prity documents have b u (PCT Rule 17.2(a)).	in Application No een received in this National Stage	
2)	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152) 	

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1. In page 2 of the Specification:

The articles "Decompression of Test Data Using Variable-Length Seed LFSRs" by Rajski et al, 1995, IEEE; and "LFSR-Coded Test Pattern for Scan-Design" by Konemann, 1991, ITL Munich, Germany is noticed. However, applicant is requested to submit these aforementioned articles so that examiner can consider them fully.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1, 18 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Balachandran et al (US 2003/0149913) in view of Rajski et al (5,991,909).

As per claim 1, Balachandran et al disclose a method and system for efficient burn-in of electronic circuits, comprising:

Specifying test vectors one by one;

Compressing the test vectors one by one; and

Providing the compressed test vectors. (See Figures 7 and 8, paragraphs (0029)-(0040)). Balachandran et al do not specifically disclose the step of specifying a logic model representation of the physical (BIT-HW), wherein the BIT-HW consists of a linear feedback shift register (LFSR) for pseudo-random pattern generation and a computer program for pattern merging and distribution over scan chains. However, Rajski et al disclose such step. (See col. 4, lines 20-34). Therefore, it would have been obvious to a person of ordinary skill in the art, at the time the invention was made, to incorporate the specifying step of a logic model representation of the physical (BIT-HW), wherein the BIT-HW consists of a linear feedback shift register (LFSR) for pseudo-random pattern generation and a computer program for pattern merging and distribution over scan chains as taught by Rajski et al into the scan chains of Balachandran et al to insert a boundary scan design into the user IC design.

As per claims 18 and 25, these claims are rejected under similar rationale as set forth in claim 1.

- 4. Claims 2-17, 19-24 and 26-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phung My Chung whose telephone number is 571-272-3818. The examiner can normally be reached on Monday to Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on 571-272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phung My Chung

Primary Patent Examiner

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